

AMENDMENTS TO THE CLAIMS

1. (currently amended) A polyethylene composition with ~~multimodal~~trimodal molecular mass distribution, which ~~has~~comprises:
 - a density in the range from 0.955 to 0.960 g/cm³ at 23 °C[[],];
 - an MFI_{190/5} in the range from 0.8 to 1.6 dg/min, ~~and which comprises~~;
 - from 45 to 55 % by weight of a low-molecular-mass ethylene homopolymer A having a viscosity VN_A in the range from 70 to 90 cm³/g;
 - from 20 to 35 % by weight of a high-molecular-mass copolymer B made from ethylene and a ~~first~~ 1-olefin comonomer having from 4 to 8 carbon atoms wherein a mixture of homopolymer A and copolymer B has a viscosity number VN₂ in the range from 150 to 200 cm³/g; and
 - from 20 to 30 % by weight of an ultrahigh-molecular-mass ethylene copolymer C containing a ~~second~~ 1-olefin comonomer having from 4 to 8 carbon atoms, wherein a mixture of homopolymer A, copolymer B, and copolymer C has a viscosity number VN₃ in the range from 260 to 340 cm³/g, and wherein all of the percentage data are based on the total weight of the composition.
2. (currently amended) The polyethylene composition as claimed in claim 1, wherein the ~~first~~ 1-olefin comonomer of copolymer B is present in an amount from 0.1 to 0.6 % by weight, based on the weight of copolymer B and the ~~second~~ 1-olefin comonomer of copolymer C is present in an amount from 0.5 to 2.5 % by weight, based on the weight of copolymer C.
3. (currently amended) The polyethylene composition as claimed in claim 1 wherein the ~~first~~ 1-olefin comonomer of copolymer B and ~~second~~ the 1-olefin comonomers comonomer of copolymer C are independently selected from 1-butene, 1-pentene, 1-hexene, 1-octene, 4-methyl-1-pentene, or a mixture of these.
4. (currently amended) The polyethylene composition as claimed in claim 1, having a viscosity number VN_{tot} of from 280 to 350 cm³/g measured ~~to~~by ISO/R 1191 in decalin at 135 °C.

5. (previously presented) The polyethylene composition as claimed in claim 1, which has a swell ratio in the range from 115 to 145 %, a notched impact strength (ISO) in the range from 8 to 14 kJ/m², and a stress-crack resistance (FNCT) in the range from 8 to 20 h.
6. (currently amended) A process for producing a polyethylene composition with ~~multimodal~~trimodal molecular mass distribution, ~~having comprising~~ a density in the range from 0.955 to 0.960 g/cm³ at 23 °C[[,]]; an MFI_{190/5} in the range from 0.8 to 1.6 dg/min[[,]]; ~~and which comprises~~ from 45 to 55 % by weight of a low-molecular-mass ethylene homopolymer A having a viscosity VN_A in the range from 70 to 90 cm³/g; from 20 to 35 % by weight of a high-molecular-mass copolymer B made from ethylene and a ~~first~~ 1-olefin comonomer having from 4 to 8 carbon atoms wherein a mixture of homopolymer A and copolymer B has a viscosity number VN₂ in the range from 150 to 200 cm³/g; and from 20 to 30 % by weight of an ultrahigh-molecular-mass ethylene copolymer C containing a ~~second~~ 1-olefin comonomer having from 4 to 8 carbon atoms, wherein a mixture of homopolymer A, copolymer B, and copolymer C has a viscosity number VN₃ in the range from 260 to 340 cm³/g, wherein all of the percentage data are based on the total weight of the composition, and wherein the monomers are polymerized in slurry in a temperature range of from 20 to 120 °C at a pressure in the range of from 0.15 to 1 MPa, and in the presence of a high-mileage Ziegler catalyst composed of a transition metal compound and of an organoaluminum compound, the process comprising conducting polymerization in three stages, wherein the molecular mass of the polyethylene prepared in each stage is regulated with the aid of hydrogen, thereby forming a hydrogen concentration in each stage.
7. (cancelled)
8. (cancelled)
9. (cancelled)

10. (currently amended) A process for producing a blow molding from a polyethylene composition with ~~multimodal~~trimodal molecular mass distribution, having comprising a density in the range from 0.955 to 0.960 g/cm³ at 23 °C[[,]]; an MFI_{190/5} in the range from 0.8 to 1.6 dg/min[[,]]; and ~~which comprises~~ from 45 to 55 % by weight of a low-molecular-mass ethylene homopolymer A having a viscosity VN_A in the range from 70 to 90 cm³/g; from 20 to 35 % by weight of a high-molecular-mass copolymer B made from ethylene and a ~~first~~1-olefin comonomer having from 4 to 8 carbon atoms wherein a mixture of homopolymer A and copolymer B has a viscosity number VN₂ in the range from 150 to 200 cm³/g; and from 20 to 30 % by weight of an ultrahigh-molecular-mass ethylene copolymer C containing a ~~second~~1-olefin comonomer having from 4 to 8 carbon atoms, wherein a mixture of homopolymer A, copolymer B, and copolymer C has a viscosity number VN₃ in the range from 260 to 340 cm³/g, wherein all of the percentage data are based on the total weight of the composition,
the process comprising:

- plasticizing the polyethylene composition in an extruder in a temperature range of from 200 to 250 °C;
- extruding the product of step (a) through a die into a mold;
- blowing up the product of step (b) in a blow molding apparatus; and
- cooling the product of step (c) to solidify the blow molding.

11. (previously presented) The polyethylene composition as claimed in 4 where the viscosity number VN_{tot} is from 300 to 320 cm³/g.

12. (currently amended) The process as claimed in claim 96, wherein the viscosity number VN₃ of the mixture of polymer A, polymer B, and polymer C is in the range of from 280 to 320 cm³/g.

13. (previously presented) The process as claimed in claim 10 where the blow molding is a container with a capacity in the range from 200 to 5000 cm³.